

Logon

\*\*\* It is now 6/5/08 2:29:40 PM \*\*\*

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Order Patent and Trademark File Histories Through Dialog

*Thomson File Histories* are now available directly through *Dialog*. Combined with the comprehensive patent and trademark information on *Dialog*, file histories give you the most complete view of a patent or trademark and its history in one place. When searching in the following patent and trademark databases, a link to an online order form is displayed in your search results, saving you time in obtaining the file histories you need.

*Thomson File Histories* are available from the following *Dialog* databases:

- CLAIMS/Current Patent Legal Status (File 123)
- CLAIMS/U.S. Patents (File 340)
- Chinese Patent Abstracts in English (File 344)
- Derwent Patents Citation Index (File 342)
- Derwent World Patents Index (for users in Japan) (File 352)
- Derwent World Patents Index First View (File 331)
- Derwent World Patents Index (File 351)
- Derwent World Patents Index (File 350)
- Ei EnCompassPat (File 353)
- European Patents Fulltext (File 348)
- French Patents (File 371)
- German Patents Fulltext (File 324)
- IMS Patent Focus (File 447, 947)
- INPADOC/Family and Legal Status (File 345)
- JAPIO - Patent Abstracts of Japan (File 347)
- LitAlert (File 670)
- U.S. Patents Fulltext (1971-1975) (File 652)

- U.S. Patents Fulltext (1976-present) (File 654)
- WIPO/PCT Patents Fulltext (File 349)
- TRADEMARKSCAN - U.S. Federal (File 226)

#### DialogLink 5 Release Notes

New features available in the latest release of DialogLink 5 (August 2006)

- Ability to resize images for easier incorporation into DialogLink Reports
- New settings allow users to be prompted to save Dialog search sessions in the format of their choice (Microsoft Word, RTF, PDF, HTML, or TEXT)
- Ability to set up Dialog Alerts by Chemical Structures and the addition of Index Chemicus as a structure searchable database
- Support for connections to STN Germany and STN Japan services

Show Preferences for details

? Help Log On Msg

\*\*\* ANNOUNCEMENTS \*\*\*

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"Thomson File Histories" are now available directly through Dialog in selected patent and trademark files. Combined with the comprehensive patent and trademark information on Dialog, file histories give you the most complete view of a patent or trademark and its history in one place. When searching in one of the patent and trademark databases, a link to an online order form is displayed in your search results, saving you time in obtaining the file histories you need. See HELP FILEHIST for more information about how to use the link and a list of files that contain the link.

\*\*\*The 2008 EMTREE Thesaurus has been added to EMBASE (Files 72, 73, 772, and 972)\*\*\*

RESUMED UPDATING

\*\*\*File 120, U.S. Copyrights

\*\*\*

RELOADS COMPLETED

\*\*\*File 156, ToxFile (annual reload)

\*\*\*

FILES REMOVED

\*\*\*Files 476/Financial Times & 473/Financial Times Abstracts

\*\*\*Files 359,959,804, Chemical Economics Handbook

\*\*\*Files 360,960, Specialty Chemicals Update Program

\*\*\*

>>>For the latest news about Dialog products, services, content<<<

>>>and events, please visit What's New from Dialog at <<<

>>><http://www.dialog.com/whatsnew/>. You can find news about <<<

>>>a specific database by entering HELP NEWS <file number>. <<<

? Help Off Line

\* \* \*

Connecting to Suzanne Noakes - Dialog - 276629

Connected to Dialog via SMS003052781

? b 155 biosci medicine 399

>>>W: 44 is unauthorized

76 is unauthorized

138 is unauthorized

3 of the specified files are not available

[File 155] MEDLINE(R) 1950-2008/Jun 03

(c) format only 2008 Dialog. All rights reserved.

*\*File 155: MEDLINE has reloaded. Please see HELP NEWS 155 for details.*

[File 5] Biosis Previews(R) 1926-2008/Jun W1

(c) 2008 The Thomson Corporation. All rights reserved.

[File 24] CSA Life Sciences Abstracts 1966-2008/Mar

(c) 2008 CSA. All rights reserved.

[File 28] Oceanic Abstracts 1966-2008/Jun

(c) 2008 CSA. All rights reserved.

[File 34] SciSearch(R) Cited Ref Sci 1990-2008/Jun W2

(c) 2008 The Thomson Corp. All rights reserved.

[File 35] Dissertation Abs Online 1861-2008/Nov  
(c) 2008 ProQuest Info&Learning. All rights reserved.

[File 40] Envioline(R) 1975-2008/Apr  
(c) 2008 Congressional Information Service. All rights reserved.

[File 41] Pollution Abstracts 1966-2008/May  
(c) 2008 CSA. All rights reserved.

[File 45] EMCare 2008/May W4  
(c) 2008 Elsevier B.V. All rights reserved.

[File 50] CAB Abstracts 1972-2008/Apr  
(c) 2008 CAB International. All rights reserved.

[File 65] Inside Conferences 1993-2008/Jun 05  
(c) 2008 BLDSC all rts. reserv. All rights reserved.

[File 71] ELSEVIER BIOBASE 1994-2008/May W3  
(c) 2008 Elsevier B.V. All rights reserved.

[File 73] EMBASE 1974-2008/Jun 04  
(c) 2008 Elsevier B.V. All rights reserved.

*\*File 73: The 2008 EMTREE Thesaurus has been loaded. Please see HELP NEWS 72 for details.*

[File 91] MANTIS(TM) 1880-2008/Aug  
2001 (c) Action Potential. All rights reserved.

[File 98] General Sci Abs 1984-2008/May  
(c) 2008 The HW Wilson Co. All rights reserved.

[File 110] WasteInfo 1974-2002/Jul  
(c) 2002 AEA Techn Env. All rights reserved.

*\*File 110: This file is closed (no updates)*

[File 135] NewsRx Weekly Reports 1995-2008/Jun W1  
(c) 2008 NewsRx. All rights reserved.

[File 136] BioEngineering Abstracts 1966-2007/Jan  
(c) 2007 CSA. All rights reserved.

*\*File 136: This file is closed.*

[File 143] Biol. & Agric. Index 1983-2008/Apr  
(c) 2008 The HW Wilson Co. All rights reserved.

[File 144] Pascal 1973-2008/May W4  
(c) 2008 INIST/CNRS. All rights reserved.

[File 164] Allied & Complementary Medicine 1984-2008/Jun  
(c) 2008 BLHCIS. All rights reserved.

[File 172] EMBASE Alert 2008/Jun 04  
(c) 2008 Elsevier B.V. All rights reserved.

[File 185] Zoological Record Online(R) 1864-2008/Jun  
(c) 2008 The Thomson Corp. All rights reserved.

*\*File 185: The file has been reloaded to add archive records back to 1864. Accession numbers have changed.*

[File 357] Derwent Biotech Res. \_1982-2008/Apr W4  
(c) 2008 The Thomson Corp. All rights reserved.

[File 369] New Scientist 1994-2008/Feb W4  
(c) 2008 Reed Business Information Ltd. All rights reserved.

[File 370] Science 1996-1999/Jul W3  
(c) 1999 AAAS. All rights reserved.

*\*File 370: This file is closed (no updates). Use File 47 for more current information.*

[File 391] Beilstein Database - Reactions 2007/Q4  
(c) 2008 Beilstein GmbH. All rights reserved.

[File 434] SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 2006 The Thomson Corp. All rights reserved.

[File 467] ExtraMED(tm) 2000/Dec  
(c) 2001 Informania Ltd. All rights reserved.

[File 149] TGG Health&Wellness DB(SM) 1976-2008/May W3  
(c) 2008 The Gale Group. All rights reserved.

[File 156] ToxFile 1965-2008/May W4  
(c) format only 2008 Dialog. All rights reserved.  
*\*File 156: ToxFile has been reloaded. Accession numbers have changed.*

[File 159] Cancerlit 1975-2002/Oct  
(c) format only 2002 Dialog. All rights reserved.

[File 162] Global Health 1983-2008/Apr  
(c) 2008 CAB International. All rights reserved.

[File 266] FEDRIP 2008/Feb  
Comp & dist by NTIS, Intl Copyright All Rights Res. All rights reserved.

[File 399] CA SEARCH(R) 1967-2008/UD=14823  
(c) 2008 American Chemical Society. All rights reserved.  
*\*File 399: Use is subject to the terms of your user/customer agreement. IPCR/8 classification codes now searchable as IC=. See HELP NEWSIPCR.*

[File 444] New England Journal of Med. 1985-2008/Mar W3  
(c) 2008 Mass. Med. Soc. All rights reserved.

```
?  s au=((jones, d?) or (jones, D.H.) or (jones d.?) or (jones d?)) and concanavalin
      22401  AU=JONES, D?
      33    AU=JONES, D.H.
      9693  AU=JONES D.?
      47642 AU=JONES D?
      145438 CONCAVALIN
```

S1 71 S AU=((JONES, D?) OR (JONES, D.H.) OR (JONES D.?) OR (JONES D?)) AND  
CONCANAVALIN

? rd

>>>W: Duplicate detection is not supported for File 391.

Records from unsupported files will be retained in the RD set.

S2 23 RD (UNIQUE ITEMS)

? s s2 and py<=2--3

Stop request submitted

>>>P: Processing stopped

? s s2 and py<=2003

Processing

Processing

Processing

Processing

Processing

Processing

Processing

Processing

>>>W: One or more prefixes are unsupported

or undefined in one or more files.

23 S2

129165283 PY<=2003

S3 22 S S2 AND PY<=2003

?

? t s3/medium/all

3/3/1 (Item 1 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)  
MEDLINE(R)

(c) format only 2008 Dialog. All rights reserved.

14405641 PMID: 11807293

Recombinant pre-pro-Concanavalin A (jack bean) is stable but of low solubility.

Dincturk H B; Dunn A J; Jones D H

Molecular Biology Research Group, School of Biological Sciences, University of Wales Swansea, Singleton Park, Swansea, SA2 8PP, UK. dincturk@itu.edu.tr

Journal of biosciences ( India ) Dec 2001 , 26 (5) p635-40 , ISSN: 0250-5991--Print Journal Code: 8100809

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

3/3/2 (Item 2 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)

MEDLINE(R)

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11253897 PMID: 7664074

In vitro splicing of concanavalin A is catalyzed by asparaginyl endopeptidase.

Min W; Jones D H

Nature structural biology ( UNITED STATES ) Aug 1994 , 1 (8) p502-4 , ISSN: 1072-8368--Print Journal Code: 9421566

Publishing Model Print

Document type: Comparative Study; Letter

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

3/3/3 (Item 3 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)

MEDLINE(R)

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10144484 PMID: 1577172

Stability and detection of recombinant pre-pro-concanavalin A after cytoplasmic expression in Escherichia coli.

Min W; Jones D H

School of Biological Sciences, University College of Swansea, Wales, UK.

FEBS letters ( NETHERLANDS ) Apr 27 1992 , 301 (3) p315-8 , ISSN: 0014-5793--Print Journal Code: 0155157

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

3/3/4 (Item 4 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)  
MEDLINE(R)

(c) format only 2008 Dialog. All rights reserved.  
10125977 PMID: 1563347

Non-glycosylated recombinant pro-concanavalin A is active without polypeptide cleavage.

Min W; Dunn A J; Jones D H

Molecular Biology Research Group, School of Biological Sciences, University College of Swansea, Wales, UK.  
EMBO journal ( ENGLAND ) Apr 1992 , 11 (4) p1303-7 , ISSN: 0261-4189--Print Journal Code: 8208664  
Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

3/3/5 (Item 5 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)  
MEDLINE(R)

(c) format only 2008 Dialog. All rights reserved.  
09531001 PMID: 2230739

Biochemical and immunological studies of proteins from polydnavirus Chelonus sp. near curvimaculatus.

Chelliah J; Jones D

Department of Entomology, University of Kentucky, Lexington 40546.

Journal of general virology ( ENGLAND ) Oct 1990 , 71 ( Pt 10) p2353-9 , ISSN: 0022-1317--Print Journal Code: 0077340

Contract/Grant No.: GM33995; GM; United States NIGMS

Publishing Model Print

Document type: Journal Article; Research Support, U.S. Gov't, P.H.S.

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

3/3/6 (Item 6 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)  
MEDLINE(R)

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09488892 PMID: 1698007

The prevalence of amyloid (A4) protein deposits within the cerebral and cerebellar cortex in Down's syndrome and Alzheimer's disease.

Mann D M; Jones D; Prinja D; Purkiss M S



Department of Pathology, University of Manchester, Great Britain.

Acta neuropathologica ( GERMANY, WEST ) 1990 , 80 (3) p318-27 , ISSN: 0001-6322--Print Journal Code: 0412041

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

3/3/7 (Item 7 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)

MEDLINE(R)

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07670446 PMID: 4020778

Differential effect of human chorionic gonadotrophin on lymphocyte proliferation induced by mitogens.

Ricketts R M; Jones D B

Journal of reproductive immunology ( NETHERLANDS ) May 1985 , 7 (3) p225-32 , ISSN: 0165-0378--Print

Journal Code: 8001906

Publishing Model Print

Document type: Comparative Study; In Vitro; Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

3/3/8 (Item 8 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)

MEDLINE(R)

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07265996 PMID: 6231045

Spontaneous and Concanavalin A-induced suppressor activity in control and Hodgkin's disease patients.

Akbar A N; Jones D B; Wright D H

British journal of cancer ( ENGLAND ) Mar 1984 , 49 (3) p349-56 , ISSN: 0007-0920--Print Journal Code: 0370635

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

3/3/9 (Item 9 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)

MEDLINE(R)

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07155935 PMID: 6139819

Binding and uptake of concanavalin A into rat brain synaptosomes: evidence for synaptic vesicle recycling.

Gordon-Weeks P R; Jones D H

Proceedings of the Royal Society of London. Series B, Containing papers of a Biological character. Royal Society (Great Britain) ( ENGLAND ) Oct 22 1983 , 219 (1217) p413-22 , ISSN: 0080-4649--Print Journal Code: 7505889

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

3/3/10 (Item 10 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)

MEDLINE(R)

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06734365 PMID: 7093814

Cell mediated immune response in miniature Sinclair swine bearing cutaneous melanomas.

Jones D H; Amoss M S

Canadian journal of comparative medicine. Revue canadienne de medecine comparee ( CANADA ) Apr 1982 , 46 (2) p209-11 , ISSN: 0008-4050--Print Journal Code: 0151747

Contract/Grant No.: 5 S07 RR07090-14; RR; United States NCRR

Publishing Model Print

Document type: Journal Article; Research Support, U.S. Gov't, Non-P.H.S.; Research Support, U.S. Gov't, P.H.S.

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

3/3/11 (Item 11 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)

MEDLINE(R)

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06473350 PMID: 7260628

Trypsin separates synaptic junctions to reveal pre- and post-synaptic concanavalin A receptors.

Gordon-Weeks P R; Jones D H; Gray E G; Barron J

Brain research ( NETHERLANDS ) Aug 24 1981 , 219 (1) p224-30 , ISSN: 0006-8993--Print Journal Code: 0045503

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

3/3/12 (Item 1 from file: 5)

Fulltext available through: [STIC Full Text Retrieval Options](#)

Biosis Previews(R)

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15344757 Biosis No.: 200000063070

Co-cultivation of CD4+ and CD8+ human T-cells leads to the appearance of CD4 cells expressing CD8 through de novo synthesis of the CD8 alpha-subunit

Author: O'Donovan Michael R (Reprint); Jones D Rhodri E; Robins R Adrian; Li Ka Fai; Shim Ho-Ki; Zheng Zhaohui; Arlett Colin F; Capulas Emily; Cole Jane

Author Address: AstraZeneca R and D Charnwood, Bakewell Road, Loughborough, Leicestershire, LE11 5RH, UK\*\*UK

Journal: Human Immunology 60 ( 11 ): p 1018-1027 Nov., 1999 1999

Medium: print

ISSN: 0198-8859

Document Type: Article

Record Type: Abstract

Language: English

3/3/13 (Item 2 from file: 5)

Fulltext available through: [STIC Full Text Retrieval Options](#)

Biosis Previews(R)

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10628768 Biosis No.: 199191011659

BIOCHEMICAL AND IMMUNOLOGICAL STUDIES OF PROTEINS FROM POLYDNAVIRUS  
CHELONUS-SP NEAR CHELONUS-CURVIMACULATUS

Author: CHELLIAH J (Reprint); JONES D

Author Address: DEP ENTOMOL, UNIV KY, LEXINGTON, KY 40546, USA\*\*USA

Journal: Journal of General Virology 71 ( 10 ): p 2353-2360 1990

ISSN: 0022-1317

Document Type: Article

Record Type: Abstract

Language: ENGLISH

3/3/14 (Item 3 from file: 5)

Fulltext available through: [STIC Full Text Retrieval Options](#)

Biosis Previews(R)

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07759238 Biosis No.: 198580068133

DIFFERENTIAL EFFECT OF HUMAN CHORIONIC GONADOTROPIN ON LYMPHOCYTE  
PROLIFERATION INDUCED BY MITOGENS

Author: RICKETTS R M (Reprint); JONES D B  
Author Address: UNIV DEP PATHOL, LEVEL E, SOUTH BLOCK, GENERAL HOSP, SOUTHAMPTON SO9 4XY, UK\*\*UK  
Journal: Journal of Reproductive Immunology 7 ( 3 ): p 225-232 1985  
ISSN: 0165-0378  
Document Type: Article  
Record Type: Abstract  
Language: ENGLISH

3/3/15 (Item 4 from file: 5)

Fulltext available through: [STIC Full Text Retrieval Options](#)

Biosis Previews(R)

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06377257 Biosis No.: 198222021200

TRYPSIN SEPARATES SYNAPTIC JUNCTIONS TO REVEAL PRESYNAPTIC AND POSTSYNAPTIC CONCAVALIN A RECEPTORS

Author: GORDON-WEEKS P R (Reprint); JONES D H; GRAY E G; BARRON J  
Author Address: LAB BIOL ULTRASTRUCTURE, NATIONAL INST FOR MED RES, RIDGEWAY, MILL HILL, LONDON NW7 1AA UK, UK\*\*UK  
Journal: Brain Research 219 ( 1 ): p 224-230 1981  
ISSN: 0006-8993  
Document Type: Article  
Record Type: Citation  
Language: ENGLISH

3/3/16 (Item 5 from file: 5)

Fulltext available through: [STIC Full Text Retrieval Options](#)

Biosis Previews(R)

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06122329 Biosis No.: 198121006292

CONCAVALIN A INDUCED SUPPRESSOR ACTIVITY OF LYMPHOCYTES DERIVED FROM HODGKINS DISEASE SPLEENS

Author: AKBAR A (Reprint); JONES D B; PAYNE S V; WRIGHT D H  
Author Address: UNIV DEP PATHOL, GEN HOSP, SOUTHAMPTON, UK\*\*UK  
Journal: British Journal of Cancer 42 ( 1 ): p 176-177 1980  
Conference/Meeting: 21ST ANNUAL GENERAL MEETING OF THE BRITISH ASSOCIATION FOR CANCER RESEARCH, SOUTHAMPTON, ENGLAND, MARCH 31-APRIL 2, 1980. BR J CANCER.  
ISSN: 0007-0920  
Document Type: Meeting  
Record Type: Citation  
Language: ENGLISH

3/3/17 (Item 6 from file: 5)

Fulltext available through: [STIC Full Text Retrieval Options](#)

Biosis Previews(R)

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05500946 Biosis No.: 197916009941

ANALYSIS OF THYMUS DERIVED CELL FUNCTION IN SPLEENS FROM HODGKINS DISEASE PATIENTS AND CONTROLS

Author: JONES D B; PAYNE S V; WRIGHT D H

Journal: British Journal of Cancer 38 ( 1 ): p 185 1978

ISSN: 0007-0920

Document Type: Article

Record Type: Citation

Language: Unspecified

3/3/18 (Item 1 from file: 34)

SciSearch(R) Cited Ref Sci

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01680131 Genuine Article#: HR636 No. References: 16

STABILITY AND DETECTION OF RECOMBINANT PRE-PRO-CONCANAVALIN-A AFTER CYTOPLASMIC EXPRESSION IN ESCHERICHIA-COLI

Author: WANG M; JONES DH

Corporate Source: UNIV COLL SWANSEA,SCH BIOL SCI,MOLEC BIOL RES GRP/SWANSEA SA2 8PP/W GLAM/WALES/; UNIV COLL SWANSEA,SCH BIOL SCI,MOLEC BIOL RES GRP/SWANSEA SA2 8PP/W GLAM/WALES/

Journal: FEBS LETTERS , 1992 , V 301 , N3 ( APR 27 ) , P 315-318

Language: ENGLISH Document Type: ARTICLE ( Abstract Available )

3/3/19 (Item 1 from file: 73)

Fulltext available through: [STIC Full Text Retrieval Options](#)

EMBASE

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0072709866 EMBASE No: 1984090282

Spontaneous and Concanavalin A-induced suppressor activity in control and Hodgkins' disease patients

Akar A.N.; Jones D.B.; Wright D.H.

University Department of Pathology, Level E, South Laboratory, Southampton General Hospital, Southampton SO9 4XY, United Kingdom

Corresp. Author Affil: University Department of Pathology, Level E, South Laboratory, Southampton General Hospital, Southampton SO9 4XY, United Kingdom

British Journal of Cancer ( BR. J. CANCER ) ( United Kingdom ) May 17, 1984 , 49/3 (349-356)

CODEN: BJCAA ISSN: 00070920

Document Type: Journal ; Article Record Type: Abstract

Language: English

3/3/20 (Item 1 from file: 144)

Pascal

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05611905 PASCAL No.: 84-0112310

Binding and uptake of concanavalin A into rat brain synaptosomes:  
evidence for synaptic recycling

GORDON-WEEKS P R; JONES D H

National inst. medical res., London NW7 1AA, United Kingdom

Journal: Proceedings of the Royal Society of London. Series

B: biological Sciences, 1983

, 219 (1217) 413-422

Language: English

3/3/21 (Item 1 from file: 399)

Fulltext available through: [STIC Full Text Retrieval Options](#)

CA SEARCH(R)

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127231975 CA: 127(17)231975d JOURNAL

Recombinant concanavalin A and precursors used to investigate its extraordinary post-translational processing

Author: Jones, D. H.; Min, W.; Dincturk, H. B.; Dunn, A. J.; Williams, R. P.; Li, M.

Location: Molecular Biology Research Group, School of Biological Sciences, University of Wales Swansea, Swansea, UK, SA2 8PP

Journal: Lectins: Biol., Biochem., Clin. Biochem.

Date: 1997

Volume: 11, Pages: 70-73

CODEN: LBBBD5

ISSN: 0723-8878

Language: English

Publisher: TEXTOP

3/3/22 (Item 2 from file: 399)

CA SEARCH(R)

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125051881 CA: 125(5)51881v CONFERENCE PROCEEDING

Folding, activation and protein splicing of recombinant concanavalin A precursors: An exceptional protein to prove some rules

Author: Jones, D. Hugh

Location: School Biological Sciences, University Wales, Swansea, UK, SA2 8PP

Journal: Perspect. Protein Eng. Complementary Technol., Collect. Pap., Int. Symp., 3rd

Editor: Geisow, Michael J. (Ed), Epton, Roger (Ed),

Date: 1995

Pages: 70-73

CODEN: 62ZQAP

Language: English

Meeting Date: 940000

Publisher: Mayflower Worldwide , Kingswinford, UK

? s (concanavalin) (N50) (purif?) (N50) (borate or borax or CHES)

Processing

145438 CONCAVALIN

3090224 PURIF?

150343 BORATE

9364 BORAX

3763 CHES

S4 32 S (CONCAVALIN) (N50) (PURIF?) (N50) (BORATE OR BORAX OR CHES)

? rd

>>>W: Duplicate detection is not supported for File 391.

Records from unsupported files will be retained in the RD set.

S5 14 RD (UNIQUE ITEMS)

? s s5 and recombinant

14 S5

1685209 RECOMBINANT

S6 0 S S5 AND RECOMBINANT

? t s5/medium/all

5/3/1 (Item 1 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)

MEDLINE(R)

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15049137 PMID: 12573567

Isolation of a trypsin inhibitor from *Echinodorus paniculatus* seeds by affinity chromatography on immobilized *Cratylia mollis* isolectins.

Paiva P M G; Souza A F; Oliva M L V; Kennedy J F; Cavalcanti M S M; Coelho L C B B; Sampaio C A M  
Departamento de Bioquímica, CBB/UFPE, Av. Moraes Rego, S/N, Cidade Universitária, Recife-PE, CEP 50670-420, Brazil. pmgpaiva@bol.com.br

Bioresource technology ( England ) May 2003 , 88 (1) p75-9 , ISSN: 0960-8524--Print Journal Code: 9889523  
Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

5/3/2 (Item 2 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)

MEDLINE(R)

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11900962 PMID: 8823907

Structural characterization of red wine rhamnogalacturonan II.

Pellerin P; Doco T; Vidal S; Williams P; Brillouet J M; O'Neill M A  
Institut National de la Recherche Agronomique, Laboratoire des Polymeres et des Techniques Physico-Chimiques, Montpellier, France.

Carbohydrate research ( NETHERLANDS ) Sep 2 1996 , 290 (2) p183-97 , ISSN: 0008-6215--Print Journal Code: 0043535

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

5/3/3 (Item 3 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)

MEDLINE(R)

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10746620 PMID: 8248036

Some structural studies on the galactose-containing polysaccharide from bovine placenta.

Pontarolo R; Duarte J H; Feijo M A



Departamento de Farmacia, Universidade Federal do Parana, Brazil.

Placenta ( ENGLAND ) Jul-Aug 1993 , 14 (4) p439-48 , ISSN: 0143-4004--Print Journal Code: 8006349

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

5/3/4 (Item 4 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)

MEDLINE(R)

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07290007 PMID: 6425277

Branch specificity of purified rat liver Golgi UDP-galactose: N-acetylglucosamine beta-1,4-galactosyltransferase. Preferential transfer of galactose on the GlcNAc beta 1,2-Man alpha 1,3-branch of a complex biantennary Asn-linked oligosaccharide.

Paquet M R; Narasimhan S; Schachter H; Moscarello M A

Journal of biological chemistry ( UNITED STATES ) Apr 25 1984 , 259 (8) p4716-21 , ISSN: 0021-9258--Print

Journal Code: 2985121R

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

5/3/5 (Item 5 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)

MEDLINE(R)

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06905259 PMID: 7166570

The mechanism of Fc-mediated interaction of eosinophils with immobilized immune complexes. II. Identification of two membrane proteins, modified by the interaction.

Thorne K J; Free J; Franks D; Oliver R C

Journal of cell science ( ENGLAND ) Aug 1982 , 56 p357-69 , ISSN: 0021-9533--Print Journal Code: 0052457

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

5/3/6 (Item 6 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)  
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06435770 PMID: 6113139

Isolation of gamma-glutamyl transpeptidase from human primary hepatoma and comparison of its kinetic and catalytic properties with the enzyme from normal adult and fetal liver.

Selvaraj P; Balasubramanian K A; Hill P G

Enzyme ( SWITZERLAND ) 1981 , 26 (2) p57-63 , ISSN: 0013-9432--Print Journal Code: 1262265

Publishing Model Print

Document type: Comparative Study; Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

5/3/7 (Item 7 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)  
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06135585 PMID: 6102743

Isolation and purification of multiple forms of gamma-glutamyl transpeptidase from rat brain.

Reyes E; Barela T D

Neurochemical research ( UNITED STATES ) Feb 1980 , 5 (2) p159-70 , ISSN: 0364-3190--Print Journal Code: 7613461

Publishing Model Print

Document type: Journal Article; Research Support, U.S. Gov't, Non-P.H.S.; Research Support, U.S. Gov't, P.H.S.

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

5/3/8 (Item 1 from file: 5)

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Biosis Previews(R)

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10332456 Biosis No.: 199090116935

STUDIES ON THE POLYSACCHARIDES FROM BOVINE PLACENTA AT DIFFERENT STAGES OF PREGNANCY

Author: PONTAROLO R (Reprint); LOPES L C V; DUARTES J H; FEIJO M A L

Author Address: DEP DE BIOQUIMICA DA UFPR, CP 19046, CEP 81504, CURITIBA, PARANA, BRASIL\*\*  
BRAZIL

Journal: Arquivos de Biologia e Tecnologia (Curitiba) 33 ( 1 ): p 227-240 1990

ISSN: 0365-0979

Document Type: Article

Record Type: Abstract  
Language: PORTUGUESE

5/3/9 (Item 2 from file: 5)

Fulltext available through: [STIC Full Text Retrieval Options](#)

Biosis Previews(R)

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07323458 Biosis No.: 198478058865

BRANCH SPECIFICITY OF PURIFIED RAT LIVER GOLGI UDP GALACTOSE N ACETYL  
GLUCOSAMINE BETA-1 4 GALACTOSYL TRANSFERASE EC-2.4.1.22 PREFERENTIAL TRANSFER  
OF GALACTOSE ON THE N ACETYLGLUCOSAMINYL-BETA-1 2-MANNOSYL-ALPHA-1 3 BRANCH  
OF A COMPLEX ASPARAGINE LINKED OLIGO SACCHARIDE

Author: PAQUET M R (Reprint); NARASIMHAN S; SCHACHTER H; MOSCARELLO M A

Author Address: DEP BIOCHEMISTRY, RES INST, HOSPITAL SICK CHILDREN, TORONTO, ONT, CAN  
M5G 1X8\*\*CANADA

Journal: Journal of Biological Chemistry 259 ( 8 ): p 4716-4721 1984

ISSN: 0021-9258

Document Type: Article

Record Type: Abstract

Language: ENGLISH

5/3/10 (Item 3 from file: 5)

Fulltext available through: [STIC Full Text Retrieval Options](#)

Biosis Previews(R)

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06289642 Biosis No.: 198172023593

ISOLATION OF GAMMA GLUTAMYL TRANS PEPTIDASE EC-2.3.2.2 FROM HUMAN PRIMARY  
HEPATOMA AND COMPARISON OF ITS KINETIC AND CATALYTIC PROPERTIES WITH THE  
ENZYME FROM NORMAL ADULT AND FETAL LIVER

Author: SELVARAJ P (Reprint); BALASUBRAMANIAN K A; HILL P G

Author Address: WELLCOME RES UNIT, CHRISTIAN MED COLL HOSP, VELLORE 632 004,  
INDIA\*\*INDIA

Journal: Enzyme (Basel) 26 ( 2 ): p 57-63 1981

ISSN: 0013-9432

Document Type: Article

Record Type: Abstract

Language: ENGLISH

5/3/11 (Item 4 from file: 5)

Fulltext available through: [STIC Full Text Retrieval Options](#)

Biosis Previews(R)

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05993674 Biosis No.: 198070025161

ISOLATION AND PURIFICATION OF MULTIPLE FORMS OF GAMMA GLUTAMYL TRANS  
PEPTIDASE EC-2.3.2.2 FROM RAT BRAIN

Author: REYES E (Reprint); BARELA T D

Author Address: DEP PHARMACOL, UNIV NM SCH MED, ALBUQUERQUE, NM 87131, USA\*\*USA

Journal: Neurochemical Research 5 ( 2 ): p 159-170 1980

ISSN: 0364-3190

Document Type: Article

Record Type: Abstract

Language: ENGLISH

5/3/12 (Item 1 from file: 50)

CAB Abstracts

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0004069244 CAB Accession Number: 19721300680

Isolation and purification of a peptido-rhamnomannan from the yeast form of *Sporothrix schenckii*.  
Structural and immunochemical studies.

Lloyd, K. O.; Bitoon, M. A.

Coll. Physicians & Surgeons, Columbia Univ., New York, NY 10032.

Journal of Immunology vol. 107 ( 3 ): p.663-671

Publication Year: 1971

Language: English Record Type: Abstract

Document Type: Journal article

5/3/13 (Item 1 from file: 357)

Derwent Biotech Res.

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0047430 DBA Accession No.: 86-05278

Coupling of concanavalin A to cellulose hollow fibers for use in glucose affinity sensor  
- process optimization

Author: Srinivasan K R; Mansouri S; Schultz J S

Corporate Source: Department of Chemical Engineering, The University of Michigan, Ann Arbor, Michigan  
48109-2136, U.S.A.

Journal: Biotechnol.Bioeng. ( 28, 2, 233-39 ) 1986

CODEN: BIBIAU

Language: English

5/3/14 (Item 1 from file: 159)

Cancerlit

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01301075 PMID: 81618791

ISOLATION OF GAMMA-GLUTAMYL TRANSPEPTIDASE FROM HUMAN PRIMARY HEPATOMA AND COMPARISON OF ITS KINETIC AND CATALYTIC PROPERTIES WITH THE ENZYME FROM NORMAL ADULT AND FETAL LIVER.

Selvaraj; Balasubramanian; Hill

Wellcome Res. Unit, Christian Medical Coll. Hosp., Vellore, India

Enzyme

1981 ,

26 (2) p57-63 , ISSN 0013-9432

Document Type: JOURNAL ARTICLE

Languages: ENGLISH

Main Citation Owner: NOTNLM

Record type: Completed

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Set	Items	Description
S1	71	S AU=((JONES, D?) OR (JONES, D.H.) OR (JONES D.?) OR (JONES D?)) AND CONCAVALIN
S2	23	RD (unique items)
S3	22	S S2 AND PY<=2003
S4	32	S (CONCAVALIN) (N50) (PURIF?) (N50) (BORATE OR BORAX OR CHES)
S5	14	RD (unique items)
S6	0	S S5 AND RECOMBINANT

? t s5/full/all

5/9/1 (Item 1 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)  
MEDLINE(R)

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15049137 PMID: 12573567

Isolation of a trypsin inhibitor from Echinodorus paniculatus seeds by affinity chromatography on immobilized Cratylia mollis isolectins.

Paiva P M G; Souza A F; Oliva M L V; Kennedy J F; Cavalcanti M S M; Coelho L C B B; Sampaio C A M  
Departamento de Bioquimica, CBB/UFPE, Av. Moraes Rego, S/N, Cidade Universitaria, Recife-PE, CEP 50670-

420, Brazil. pmgpaiva@bol.com.br

Bioresource technology ( England ) May 2003 , 88 (1) p75-9 , ISSN: 0960-8524--Print Journal Code: 9889523

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS

A highly purified trypsin inhibitor was obtained from *Echinodorus paniculatus* when an extract prepared from *E. paniculatus* seed flour (25 gl(-1)), with 0.1 M ammonium acetate buffer, pH 8.3, under agitation for 6 min at 28 degrees C) was chromatographed on Sephadex G-25 (12 mlh(-1)), followed by affinity chromatography on immobilized *Cratylia mollis* isolectins (Cra Iso 1,2,3-Sepharose). The column chromatography was performed at 24 degrees C; the matrix was washed (30 mlh(-1)) with 0.1 M sodium phosphate buffer, pH 7.4 or with the same buffer containing 0.2 M glucose, followed by application of inhibitor sample and elution with 0.015 M sodium borate buffer, pH 7.4, or 1.0 M NaCl. A purified fraction of inhibitor was obtained by gel filtration chromatography (GF-450/HPLC column). Trypsin inhibitory activity was eliminated when the inhibitor was treated with metaperiodate showing that the carbohydrate moiety was important for trypsin inhibition. Binding of inhibitor was also evaluated on immobilized concanavalin A (Con A-Sepharose) using previously described chromatographic conditions with results similar to Cra Iso 1,2,3-Sepharose chromatography.

Descriptors: \*Alismataceae--chemistry--CH; \*Enzyme Inhibitors--isolation and purification--IP; \*Fabaceae--chemistry--CH; \*Plant Proteins--isolation and purification--IP ; Chromatography, Affinity; Hydrogen-Ion Concentration; Lectins--chemistry --CH; Seeds--chemistry--CH; Trypsin Inhibitors; alpha-Amylase--antagonists and inhibitors--AI

CAS Registry No.: 0 (Enzyme Inhibitors); 0 (Lectins); 0 (Plant Proteins); 0 (Trypsin Inhibitors)

Enzyme No.: EC 3.2.1.1 (alpha-Amylase)

Record Date Created: 20030207

Record Date Completed: 20030610

5/9/2 (Item 2 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)

MEDLINE(R)

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11900962 PMID: 8823907

Structural characterization of red wine rhamnogalacturonan II.

Pellerin P; Doco T; Vidal S; Williams P; Brillouet J M; O'Neill M A

Institut National de la Recherche Agronomique, Laboratoire des Polymeres et des Techniques Physico-Chimiques, Montpellier, France.

Carbohydrate research ( NETHERLANDS ) Sep 2 1996 , 290 (2) p183-97 , ISSN: 0008-6215--Print Journal Code: 0043535

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS

The pectic polysaccharide rhamnogalacturonan II (RG-II), which accounts for approximately 20% of the ethanol-

precipitable polysaccharides in red wine, has been isolated from wine polysaccharides by anion-exchange chromatography. Four fractions enriched with RG-II were obtained and the RG-II then purified to homogeneity by Concanavalin A affinity and size-exclusion chromatographies. The glycosyl-residue compositions of the four RG-IIs are similar; all the RG-IIs contain the monosaccharides (apiose, 2-O-methyl-L-fucose, 2-O-methyl-D-xylose, Kdo, Dha, and aceric acid) that are diagnostic of RG-II. The glycosyl-linkages of the neutral and acidic sugars, including aceric acid, were determined simultaneously by GC-EIMS analysis of the methylated alditol acetates generated from per-O-methylated and carboxyl-reduced RG-II. Two of the RG-IIs contain boron, most likely as a borate di-ester that cross-links two molecules of RG-II together to form a dimer. The dimer contains 3'- and 2,3,3'-linked apiosyl residues whereas the monomer contains only 3'-linked apiosyl residues which suggests that the borate di-ester is located on at least one of the apiosyl residues of RG-II. Although the wine RG-IIs all have similar structures they are not identical since they differ in the length and degree of methyl-esterification of the RG-II backbone and in the presence or absence of borate di-esters. Nevertheless, these studies show that the major structural features of wine and primary cell wall RG-II are conserved.

Descriptors: \*Oligosaccharides--chemistry--CH; \*Pectins--chemistry--CH; \*Wine ; Borates--analysis--AN; Carbohydrate Conformation; Carbohydrate Sequence; Chromatography, Gel; Chromatography, High Pressure Liquid; Esters--analysis --AN; Mass Spectrometry; Molecular Sequence Data; Molecular Weight; Monosaccharides--analysis--AN; Pectins--isolation and purification--IP; Polygalacturonase--metabolism--ME

CAS Registry No.: 0 (Borates); 0 (Esters); 0 (Monosaccharides); 0 (Oligosaccharides); 0 (Pectins); 0 (rhamnogalacturonan II)

Enzyme No.: EC 3.2.1.15 (Polygalacturonase)

Record Date Created: 19970310

Record Date Completed: 19970310

5/9/3 (Item 3 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)

MEDLINE(R)

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10746620 PMID: 8248036

Some structural studies on the galactose-containing polysaccharide from bovine placenta.

Pontarolo R; Duarte J H; Feijo M A

Departamento de Farmacia, Universidade Federal do Parana, Brazil.

Placenta ( ENGLAND ) Jul-Aug 1993 , 14 (4) p439-48 , ISSN: 0143-4004--Print Journal Code: 8006349

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS

Polysaccharides were extracted from 8-month-old placenta with aqueous HgCl<sub>2</sub>. The protein-free material was purified by selective precipitation with Cetavlon in the presence of sodium borate at pH 8.5 and was homogeneous on molecular-sieve chromatography, electrophoresis, and on treatment with Concanavalin A. The preparation contained galactose and glucose as principal monosaccharides with 5 per cent of hexosamines. Methylation studies suggested that D-glucosyl and D-galactopyranosyl units may be constituents of glucan and galactan respectively which form a molecular aggregate that does not dissociate during the fractionation procedures. After treatment of the fraction with beta-amylase, the proportion of glucose in the polysaccharide diminished, indicating the presence of (1->4)-linked alpha-D-glucopyranosyl residues. Also, when the fraction was treated with a crude protease having

glucosidase activity a residual alpha-D-galactopyranan was isolated and found to contain non-reducing end-groups (30.0 per cent), 3-O-(39.5 per cent) and 3,6-di-O-substituted (30.5 per cent) units. The structure of the galactan was not modified according to methylation data, on removal of the glucosyl component. The polysaccharide fraction (pH 8.5 Cetavlon), isolated from bovine placenta, thus contains a glycogen-like material associated with a galactan as molecular aggregate. This galactan has not been previously recognized in bovine placenta and its occurrence in this organ supports the hypothesis that galactose-containing polysaccharides are involved in foetal development.

Tags: Female

Descriptors: \*Galactose--analysis--AN; \*Placenta--chemistry--CH; \*Polysaccharides --chemistry--CH ; Animals; Cattle; Chemical Fractionation; Galactans--chemistry--CH; Glucans --analysis--AN; Methylation; Pregnancy

CAS Registry No.: 0 (Galactans); 0 (Glucans); 0 (Polysaccharides); 26566-61-0 (Galactose)

Record Date Created: 19931227

Record Date Completed: 19931227

5/9/4 (Item 4 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)

MEDLINE(R)

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07290007 PMID: 6425277

Branch specificity of purified rat liver Golgi UDP-galactose: N-acetylglucosamine beta-1,4-galactosyltransferase. Preferential transfer of galactose on the GlcNAc beta 1,2-Man alpha 1,3-branch of a complex biantennary Asn-linked oligosaccharide.

Paquet M R; Narasimhan S; Schachter H; Moscarello M A

Journal of biological chemistry ( UNITED STATES ) Apr 25 1984 , 259 (8) p4716-21 , ISSN: 0021-9258--Print

Journal Code: 2985121R

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS

In the final stages of the terminal glycosylation of N-linked complex oligosaccharides, UDP-galactose: N-acetylglucosamine beta-1,4-galactosyltransferase (galactosyltransferase) transfers galactose (Gal) onto the N-acetylglucosamine (GlcNAc) residue of each branch of a biantennary oligosaccharide. Purified rat liver Golgi galactosyltransferase was used with GlcNAc beta 1,2-Man alpha 1,6-(GlcNAc beta 1,2-Man alpha 1,3)-Man beta 1,4-GlcNAc beta 1,4-(Fuc alpha 1,6)-GlcNAc-Asn in order to determine the sequence of addition of Gal residues to the biantennary oligosaccharide. The different galactosylated products were separated by

concanavalin A affinity chromatography and high voltage paper electrophoresis in borate. It was found that Gal was transferred at a much faster rate to the GlcNAc beta 1,2-Man alpha 1,3-branch than to the GlcNAc beta 1,2-Man alpha 1,6-branch, i.e.  $k_1$  was at least 5 times larger than  $k_2$ . Also,  $k_3$  was larger than  $k_4$ , indicating that most of the digalactosylated product "GG" was formed by the sequential addition of Gal to the Man alpha 1,3-branch followed by addition to the Man alpha 1,6-branch. The preferential galactosylation of the GlcNAc beta 1,2-Man alpha 1,3-branch may explain the formation of the asymmetrical oligosaccharides found in bovine and human IgG.

Descriptors: \*Golgi Apparatus--enzymology--EN; \*Lactose Synthase--metabolism--ME; \*Liver --enzymology--EN; \*N-Acetyllactosamine Synthase--metabolism--ME ; Animals; Asparagine; Galactose; Intracellular Membranes-



-enzymology--EN; Kinetics; Oligosaccharides--metabolism--ME; Rats; Substrate Specificity  
CAS Registry No.: 0 (Oligosaccharides); 26566-61-0 (Galactose); 7006-34-0 (Asparagine)  
Enzyme No.: EC 2.4.1.22 (Lactose Synthase); EC 2.4.1.90 (N-Acetyllactosamine Synthase)  
Record Date Created: 19840530  
Record Date Completed: 19840530

5/9/5 (Item 5 from file: 155)

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06905259 PMID: 7166570

The mechanism of Fc-mediated interaction of eosinophils with immobilized immune complexes. II.  
Identification of two membrane proteins, modified by the interaction.

Thorne K J; Free J; Franks D; Oliver R C

Journal of cell science ( ENGLAND ) Aug 1982 , 56 p357-69 , ISSN: 0021-9533--Print Journal Code:  
0052457

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS

Human peripheral blood eosinophils attach to and flatten down onto antibody-coated surfaces and subsequently degranulate. An antibody-coated surface was prepared by treating a layer of agar, containing tetanus toxoid antigen and eosinophil chemotactic factor (ECF), with human anti-tetanus immunoglobulin. Changes in eosinophil surface proteins during attachment to the antibody-coated agar layer were detected by lactoperoxidase catalysed iodination. Purified eosinophils were pre-treated with unlabelled iodide, lactoperoxidase and hydrogen peroxide to block pre-existing accessible tyrosine residues on the cell surface. They were then allowed to interact with the agar layer, and subsequently treated with lactoperoxidase and 125I-labelled iodide to label newly accessible surface proteins. Separation of the radioactive proteins by sodium dodecyl sulphate/polyacrylamide gel electrophoresis revealed that, while incubation of the cells in suspension restored the major proteins to the cell surface, interaction with the antibody-coated agar layer caused the appearance of additional proteins of apparent molecular weight 55K, 30K, 28K and 18K. The 55K, 28K and 18K proteins were greatly reduced when antibody was absent, but the 55K protein was distinguishable from immunoglobulin G (IgG) heavy chain, since it could be detected in low amounts even in the absence of antibody. It was found in purified plasma membranes and it could be separated from IgG heavy chain by iso-electric focusing. The possibility is discussed that this protein is either linked to the receptor for the Fc portion of IgG, or that it is itself the receptor. The 18K protein required both antibody and ECF for maximum expression, but was seen in limited amounts with ECF alone. Possibly it is concerned with an ECF-mediated recognition of IgG. Unlike the 55K protein, it binds concanavalin A. Plasma membranes were prepared from eosinophils by lysis in borate, followed by purification on a glass-bead column. Both the 55K and the 18K proteins were found to be major components of the eosinophil membrane.

Descriptors: \*Antigen-Antibody Complex; \*Eosinophils--immunology--IM; \*Receptors, Fc --immunology--IM ; Cell Membrane--immunology--IM; Concanavalin A--diagnostic use--DU; Humans; Membrane Proteins--immunology--IM; Molecular Weight

CAS Registry No.: 0 (Antigen-Antibody Complex); 0 (Membrane Proteins); 0 (Receptors, Fc); 11028-71-0 (Concanavalin A)

Record Date Created: 19830505  
Record Date Completed: 19830505

5/9/6 (Item 6 from file: 155)

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06435770 PMID: 6113139

Isolation of gamma-glutamyl transpeptidase from human primary hepatoma and comparison of its kinetic and catalytic properties with the enzyme from normal adult and fetal liver.

Selvaraj P; Balasubramanian K A; Hill P G

Enzyme ( SWITZERLAND ) 1981 , 26 (2) p57-63 , ISSN: 0013-9432--Print Journal Code: 1262265

Publishing Model Print

Document type: Comparative Study; Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS

gamma-Glutamyl transpeptidase (gamma-GT) from human primary hepatoma was solubilised and purified 290-fold with 25% recovery. The kinetic and catalytic properties were compared with those purified from human fetal and normal adult liver. Hepatoma gamma-GT did not differ from the fetal and adult liver gamma-GT in its pH optima for transpeptidation and auto-transfer reaction, heat stability, Km for the two substrates and inhibition by L-serine + borate. Enzyme from the three sources behaved in a similar manner towards various cations, sulphhydryl reagents, amino acid dipeptides. Adult liver enzyme showed a 4 time higher Ki value for anthglutin than hepatoma and fetal liver. The hepatoma gamma-GT could not be differentiated from that of adult and fetal liver by concanavalin-A Sepharose 4B column chromatography. The tissue concentration of gamma-GT was 3 to 13 times higher in hepatoma and fetal liver than in adult liver.

Tags: Female

Descriptors: \*Carcinoma, Hepatocellular--enzymology--EN; \*Liver--enzymology--EN; \*Liver Neoplasms--enzymology--EN; \*gamma-Glutamyltransferase--metabolism--ME ; Adult; Aging; Drug Stability; Glutamates--pharmacology--PD; Humans; Kinetics; Liver--embryology--EM; Pregnancy; gamma-Glutamyltransferase --isolation and purification--IP

CAS Registry No.: 0 (Glutamates); 69168-09-8 (anthglutin)

Enzyme No.: EC 2.3.2.2 (gamma-Glutamyltransferase)

Record Date Created: 19810810

Record Date Completed: 19810810

5/9/7 (Item 7 from file: 155)

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MEDLINE(R)

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06135585 PMID: 6102743

Isolation and purification of multiple forms of gamma-glutamyl transpeptidase from rat brain.

Reyes E; Barela T D

Neurochemical research ( UNITED STATES ) Feb 1980 , 5 (2) p159-70 , ISSN: 0364-3190--Print Journal Code: 7613461

Publishing Model Print

Document type: Journal Article; Research Support, U.S. Gov't, Non-P.H.S.; Research Support, U.S. Gov't, P.H.S.

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS

Four different forms of the enzyme gamma-glutamyl transpeptidase were isolated from rat brain by chromatography on concanavalin A. An approximate 1500-fold purification was achieved. The four forms were characterized with respect to molecular weight, Km for gamma-glutamyl-p-nitroanilide, mobility on polyacrylamide gels, and inhibitory effects of borate-serine. The multiple forms of the enzyme were found to have molecular weights ranging from 74,000 to 234,000 and Kms of 0.07 to 8.6 mM. It was determined that in brain, the major portion of the enzyme activity is associated with plasma membrane fragments and endoplasmic reticulum.

Tags: Female; Male

Descriptors: \*Brain--enzymology--EN; \*gamma-Glutamyltransferase--isolation and purification--IP ; Ammonium Sulfate; Animals; Chromatography, Gel; Electrophoresis, Polyacrylamide Gel; Molecular Weight; Rats; gamma-Glutamyltransferase --antagonists and inhibitors--AI

CAS Registry No.: 7783-20-2 (Ammonium Sulfate)

Enzyme No.: EC 2.3.2.2 (gamma-Glutamyltransferase)

Record Date Created: 19800616

Record Date Completed: 19800616

5/9/8 (Item 1 from file: 5)

Fulltext available through: [STIC Full Text Retrieval Options](#)

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10332456 Biosis No.: 199090116935

STUDIES ON THE POLYSACCHARIDES FROM BOVINE PLACENTA AT DIFFERENT STAGES OF PREGNANCY

Author: PONTAROLO R (Reprint); LOPES L C V; DUARTES J H; FEIJO M A L

Author Address: DEP DE BIOQUIMICA DA UFPR, CP 19046, CEP 81504, CURITIBA, PARANA, BRASIL\*\* BRAZIL

Journal: Arquivos de Biologia e Tecnologia (Curitiba) 33 ( 1 ): p 227-240 1990

ISSN: 0365-0979

Document Type: Article

Record Type: Abstract

Language: PORTUGUESE

Abstract: Polysaccharides were extracted from bovine placenta at different stages of pregnancy, namely terms of 3, 5, 8, and 9 months, with aqueous HgCl<sub>2</sub>. The protein-free material was then purified by selective precipitation with Cetavlon in the presence of sodium borate at pH 8.5. The fractions obtained from 3, 6, 8, and 9 month-old placentas were designated PL-3, PL-6, PL-8, and PL-9 respectively and were each homogeneous on electrophoresis, molecular-sieve chromatography, and on treatment with Concanavalin A. Polysaccharide contents of the fractions were uniform and acid hydrolysis provided, in each case, galactose and glucose as principal monosaccharides. G.l.c.

analysis of derived alditol acetates showed no variation between the D-glucose : D-galactose ratio obtained from PL-3 and PL-6, being 68:32, but there was a gradual decrease in D-glucose content of the PL-8 (58:42) and PL-9 (45:55) fractions.

Registry Numbers: 50-99-7: D-GLUCOSE; 59-23-4: D-GALACTOSE

Descriptors: D GLUCOSE D GALACTOSE ELECTROPHORESIS MOLECULAR-SIEVE  
CHROMATOGRAPHY

**DESCRIPTORS:**

Major Concepts: Biochemistry and Molecular Biophysics; Development; Metabolism; Reproductive System--Reproduction

Biosystematic Names: Bovidae--Artiodactyla, Mammalia, Vertebrata, Chordata, Animalia

Common Taxonomic Terms: Animals; Artiodactyls; Chordates; Mammals; Nonhuman Vertebrates; Nonhuman Mammals; Vertebrates

Chemicals & Biochemicals: D-GLUCOSE; D-GALACTOSE

Concept Codes:

10058 Biochemistry methods - Carbohydrates

10068 Biochemistry studies - Carbohydrates

10504 Biophysics - Methods and techniques

13004 Metabolism - Carbohydrates

16504 Reproductive system - Physiology and biochemistry

25502 Development and Embryology - General and descriptive

25508 Development and Embryology - Morphogenesis

Biosystematic Codes:

85715 Bovidae

5/9/9 (Item 2 from file: 5)

Fulltext available through: [STIC Full Text Retrieval Options](#)

Biosis Previews(R)

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07323458 Biosis No.: 198478058865

BRANCH SPECIFICITY OF PURIFIED RAT LIVER GOLGI UDP GALACTOSE N ACETYL  
GLUCOSAMINE BETA-1 4 GALACTOSYL TRANSFERASE EC-2.4.1.22 PREFERENTIAL TRANSFER  
OF GALACTOSE ON THE N ACETYLGLUCOSAMINYL-BETA-1 2-MANNOSYL-ALPHA-1 3 BRANCH  
OF A COMPLEX ASPARAGINE LINKED OLIGO SACCHARIDE

Author: PAQUET M R (Reprint); NARASIMHAN S; SCHACHTER H; MOSCARELLO M A

Author Address: DEP BIOCHEMISTRY, RES INST, HOSPITAL SICK CHILDREN, TORONTO, ONT, CAN  
M5G 1X8\*\*CANADA

Journal: Journal of Biological Chemistry 259 ( 8 ): p 4716-4721 1984

ISSN: 0021-9258

Document Type: Article

Record Type: Abstract

Language: ENGLISH

**Abstract:** In the final stages of the terminal glycosylation of N-linked complex oligosaccharides, UDP-galactose:N-acetylglucosamine .beta.-1,4-galactosyltransferase (galactosyltransferase) transfers galactose (Gal) onto the N-acetylglucosamine (GlcNAc) residue of each branch of a biantennary oligosaccharide. Purified rat liver Golgi galactosyltransferase was used with GlcNAc.beta.1,2-Man.alpha.1,6-(GlcNAc.beta.1,2-Man.alpha.1,3)-Man.beta.1,4 -GlcNAc.beta.1,4-(Fuc.alpha.1,6-)-GlcNAc-Asn in order to determine the sequence of addition of Gal residues to the biantennary oligosaccharide. The different galactosylated products were separated by concanavalin A affinity chromatography and high voltage paper electrophoresis in borate. Gal was transferred at a much faster rate to the GlcNAc.beta.1,2-Man.alpha.1,3-branch than to the GlcNAc.beta.1,2-Man.alpha.1,6-branch, i.e., k1 was at least 5 times larger than k2. Also, k3 was larger than k4, indicating that most of the digalactosylated product was formed by the sequential addition of Gal to the Man.alpha.1,6-branch followed by addition to the man.alpha.1-6-branch. The preferential galactosylation of the GlcNAc.beta.1,2-Man.alpha.1,3-branch may explain the formation of the asymmetrical oligosaccharides found in bovine and human IgG.

**Registry Numbers:** 9030-11-9: EC-2.4.1.22; 59-23-4Q: GALACTOSE; 26566-61-0Q: GALACTOSE; 70-47-3Q: ASPARAGINE; 3130-87-8Q: ASPARAGINE

**Descriptors:** BOVINE HUMAN IMMUNO GLOBULIN G/

**DESCRIPTORS:**

**Major Concepts:** Enzymology--Biochemistry and Molecular Biophysics; Immune System--Chemical Coordination and Homeostasis; Metabolism

**Biosystematic Names:** Bovidae--Artiodactyla, Mammalia, Vertebrata, Chordata, Animalia; Hominidae --Primates, Mammalia, Vertebrata, Chordata, Animalia; Muridae--Rodentia, Mammalia, Vertebrata, Chordata, Animalia

**Common Taxonomic Terms:** Artiodactyls; Humans; Primates; Animals; Chordates; Mammals; Nonhuman Vertebrates; Nonhuman Mammals; Rodents; Vertebrates

**Chemicals & Biochemicals:** EC-2.4.1.22; GALACTOSE; GALACTOSE; ASPARAGINE; ASPARAGINE

**Concept Codes:**

02506 Cytology - Animal

10058 Biochemistry methods - Carbohydrates

10064 Biochemistry studies - Proteins, peptides and amino acids

10068 Biochemistry studies - Carbohydrates

10506 Biophysics - Molecular properties and macromolecules

10806 Enzymes - Chemical and physical

12100 Movement

13004 Metabolism - Carbohydrates

13012 Metabolism - Proteins, peptides and amino acids

14004 Digestive system - Physiology and biochemistry

34502 Immunology - General and methods

**Biosystematic Codes:**

85715 Bovidae

86215 Hominidae

86375 Muridae

5/9/10 (Item 3 from file: 5)

Fulltext available through: [STIC Full Text Retrieval Options](#)

Biosis Previews(R)

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06289642 Biosis No.: 198172023593

ISOLATION OF GAMMA GLUTAMYL TRANS PEPTIDASE EC-2.3.2.2 FROM HUMAN PRIMARY

# HEPATOMA AND COMPARISON OF ITS KINETIC AND CATALYTIC PROPERTIES WITH THE ENZYME FROM NORMAL ADULT AND FETAL LIVER

Author: SELVARAJ P (Reprint); BALASUBRAMANIAN K A; HILL P G

Author Address: WELLCOME RES UNIT, CHRISTIAN MED COLL HOSP, VELLORE 632 004, INDIA\*\*INDIA

Journal: Enzyme (Basel) 26 ( 2 ): p 57-63 1981

ISSN: 0013-9432

Document Type: Article

Record Type: Abstract

Language: ENGLISH

Abstract: .gamma.-Glutamyl transpeptidase (.gamma.-GT) from human primary hepatoma was solubilized and purified 290-fold with 25% recovery. The kinetic and catalytic properties were compared with those purified from human fetal and normal adult liver. Hepatoma .gamma.-GT did not differ from the fetal and adult liver .gamma.-GT in its pH optima for transpeptidation and autotransfer reaction, heat stability, Km for the 2 substrates and inhibition by L-serine + borate. Enzyme from the 3 sources behaved in a similar manner towards various cations, sulfhydryl reagents, amino acids and dipeptides. Adult liver enzyme showed a 4 times higher Ki value for anthglutin than hepatoma and fetal liver. The hepatoma .gamma.-GT could not be differentiated from that of adult and fetal liver by concanavalin A Sepharose 4B column chromatography. The tissue concentration of .gamma.-GT was 3-13 times higher in hepatoma and fetal liver than in adult liver.

Registry Numbers: 9046-27-9: GAMMA-GLUTAMYL TRANSPEPTIDASE; 9046-27-9: EC-2.3.2.2; 56-45-1: L-SERINE; 11129-12-7Q: BORATE; 14213-97-9Q: BORATE; 13940-21-1: SULFHYDRYL; 69168-09-8: ANTHGLUTIN; 11028-71-0: CONCAVALIN A; 9012-36-6: SEPHAROSE 4B

Descriptors: HEAT STABILITY L SERINE BORATE INHIBITION CATIONS SULFHYDRYL REAGENT AMINO-ACIDS DI PEPTIDES ANTHGLUTIN CONCAVALIN A SEPHAROSE 4B COLUMN CHROMATOGRAPHY

## DESCRIPTORS:

Major Concepts: Biochemistry and Molecular Biophysics; Digestive System--Ingestion and Assimilation; Enzymology--Biochemistry and Molecular Biophysics; Metabolism ; Oncology--Human Medicine, Medical Sciences

Biosystematic Names: Leguminosae--Dicotyledones, Angiospermae, Spermatophyta, Plantae; Hominidae -- Primates, Mammalia, Vertebrata, Chordata, Animalia

Common Taxonomic Terms: Angiosperms; Dicots; Plants; Spermatophytes; Vascular Plants; Animals; Chordates; Humans; Mammals; Primates; Vertebrates

Chemicals & Biochemicals: GAMMA-GLUTAMYL TRANSPEPTIDASE; EC-2.3.2.2; L-SERINE; BORATE; BORATE; SULFHYDRYL; ANTHGLUTIN; CONCAVALIN A; SEPHAROSE 4B

## Concept Codes:

10010 Comparative biochemistry

10060 Biochemistry studies - General

10064 Biochemistry studies - Proteins, peptides and amino acids

10068 Biochemistry studies - Carbohydrates

10504 Biophysics - Methods and techniques

10618 External effects - Temperature as a primary variable - hot

10802 Enzymes - General and comparative studies: coenzymes

10806 Enzymes - Chemical and physical

12100 Movement

13012 Metabolism - Proteins, peptides and amino acids

14004 Digestive system - Physiology and biochemistry  
14006 Digestive system - Pathology  
23001 Temperature - General measurement and methods  
24006 Neoplasms - Biochemistry  
25502 Development and Embryology - General and descriptive  
51522 Plant physiology - Chemical constituents  
Biosystematic Codes:  
26260 Leguminosae  
86215 Hominidae

5/9/11 (Item 4 from file: 5)

Fulltext available through: [STIC Full Text Retrieval Options](#)

Biosis Previews(R)

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05993674 Biosis No.: 198070025161

# ISOLATION AND PURIFICATION OF MULTIPLE FORMS OF GAMMA GLUTAMYL TRANS PEPTIDASE EC-2.3.2.2 FROM RAT BRAIN

Author: REYES E (Reprint); BARELA T D

Author Address: DEP PHARMACOL, UNIV NM SCH MED, ALBUQUERQUE, NM 87131, USA\*\*USA

Journal: Neurochemical Research 5 ( 2 ): p 159-170 1980

ISSN: 0364-3190

Document Type: Article

Record Type: Abstract

Language: ENGLISH

Abstract: Different forms (4) of the enzyme .gamma.-glutamyl transpeptidase were isolated from rat brain by chromatography on concanavalin A. An approximate 1500-fold purification was achieved. The 4 forms were characterized with respect to MW, Km for .gamma.-glutamyl-p-nitroanilide, mobility on polyacrylamide gels, and inhibitory effects of borate -serine. The multiple forms of the enzyme had MW ranging from 74,000-234,000 and Km of 0.07 to 8.6 mM. In brain, the major portion of the enzyme activity is associated with plasma membrane fragments and endoplasmic reticulum.

Registry Numbers: 9046-27-9: GAMMA-GLUTAMYL TRANSPEPTIDASE; 9046-27-9: EC-2.3.2.2; 11129-12-7Q: BORATE; 14213-97-9Q: BORATE; 56-45-1Q: SERINE; 302-84-1Q: SERINE; 7300-59-6: GAMMA-GLUTAMYL-P-NITROANILIDE; 11028-71-0: CONCAVALIN A

Descriptors: BORATE SERINE METABOLIC-DRUG GAMMA GLUTAMYL-P NITRO ANILIDE CONCAVALIN A ENDOPLASMIC RETICULUM CHROMATOGRAPHY MOLECULAR WEIGHT DESCRIPTORS:

Major Concepts: Biochemistry and Molecular Biophysics; Cell Biology; Enzymology-- Biochemistry and Molecular Biophysics; Membranes--Cell Biology; Nervous System--Neural Coordination; Pharmacology  
Biosystematic Names: Leguminosae--Dicotyledones, Angiospermae, Spermatophyta, Plantae; Muridae-- Rodentia, Mammalia, Vertebrata, Chordata, Animalia

Common Taxonomic Terms: Angiosperms; Dicots; Plants; Spermatophytes; Vascular Plants; Animals; Chordates; Mammals; Nonhuman Vertebrates; Nonhuman Mammals; Rodents; Vertebrates

Chemicals & Biochemicals: GAMMA-GLUTAMYL TRANSPEPTIDASE; EC-2.3.2.2; BORATE; BORATE; SERINE; SERINE; GAMMA-GLUTAMYL-P-NITROANILIDE; CONCAVALIN A

Concept Codes:

02506 Cytology - Animal

10054 Biochemistry methods - Proteins, peptides and amino acids

10064 Biochemistry studies - Proteins, peptides and amino acids

10068 Biochemistry studies - Carbohydrates

10504 Biophysics - Methods and techniques

10506 Biophysics - Molecular properties and macromolecules

10508 Biophysics - Membrane phenomena

10804 Enzymes - Methods

10806 Enzymes - Chemical and physical

12100 Movement

20501 Nervous system - General and methods

20504 Nervous system - Physiology and biochemistry

22003 Pharmacology - Drug metabolism and metabolic stimulators

51522 Plant physiology - Chemical constituents

54000 Pharmacognosy and pharmaceutical botany

Biosystematic Codes:

26260 Leguminosae

86375 Muridae

5/9/12 (Item 1 from file: 50)

CAB Abstracts

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0004069244 CAB Accession Number: 19721300680

Isolation and purification of a peptido-rhamnomannan from the yeast form of *Sporothrix schenckii*.

Structural and immunochemical studies.

Lloyd, K. O.; Bitoon, M. A.

Coll. Physicians & Surgeons, Columbia Univ., New York, NY 10032.

Journal of Immunology vol. 107 ( 3 ): p.663-671

Publication Year: 1971

1 fig., 2 diag., 4 graphs, 2 tab.

Language: English Record Type: Abstract

Document Type: Journal article

The peptido-rhamnomannan, isolated from cells and culture medium, was purified by precipitation of its borate complex with hexadecyltrimethylammonium bromide and then by DEAE-sephadex chromatography and gel filtration on sephadex G-100. The product contained D-mannose (51%), L-rhamnose (33%), a little galactose (1%) and about 16% of peptide. The phosphate content was only 0.2%. The amino acid composition of the peptide resembled that of other fungal peptido-polysaccharides [RMVM 6, 1959]. The polymer was almost entirely (91%) precipitated by concanavalin A and the ratio of mannose to rhamnose in the precipitate was unchanged, showing that the sugars are components of the same polymer. Methylation analysis and partial acid hydrolysis showed that the basic structure of the polysaccharide was a peptido-mannan to which numerous L-rhamnose residues were attached. About 60% of the rhamnose residues could be preferentially removed by mild acid hydrolysis. The peptido-rhamnomannan precipitated with the sera of 3 patients with sporotrichosis. It did not precipitate, within the sensitivity limits of this method, with sera from 2 patients with tinea nigra, 1 with *Trichophyton mentagrophytes*



infection and 1 with [N. American] blastomycosis or sera from 3 normal individuals. 37 ref.

Descriptors: immunology; immunoprecipitation tests; cross reaction

Identifiers: peptido-rhamnomannan immunochemistry; peptido-rhamnomannan; a a

Organism Descriptors: *Sporothrix schenckii*; man

Geographic Names: USA

Broader Terms: *Sporothrix*; Deuteromycotina; Eumycota; fungi; Homo; Hominidae; Primates; mammals; vertebrates; Chordata; animals; North America; America

CABICodes: Parasites, Vectors, Pathogens and Biogenic Diseases of Humans, (Discontinued March 2000) (VV200)

5/9/13 (Item 1 from file: 357)

Derwent Biotech Res.

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0047430 DBA Accession No.: 86-05278

Coupling of concanavalin A to cellulose hollow fibers for use in glucose affinity sensor  
- process optimization

Author: Srinivasan K R; Mansouri S; Schultz J S

Corporate Source: Department of Chemical Engineering, The University of Michigan, Ann Arbor, Michigan 48109-2136, U.S.A.

Journal: *Biotechnol. Bioeng.* ( 28, 2, 233-39 ) 1986

CODEN: BIBIAU

Language: English

Abstract: A method for immobilization of concanavalin A (Con A) for use in a glucose affinity sensor is described. Following initial experiments with chopped fibers from a Cordis-Dow (C-DAK) artificial kidney, Con A was immobilized on the inside wall of Enka hollow fibers. The reaction steps for coupling were: oxidation using sodium periodate; spacer coupling with 1,6-hexanediamine and glutaraldehyde; Con A immobilization; reduction using sodium borohydride, and final wash in borate buffer. The 2 ends of a fiber were sealed on to the tips of 2 23-gauge needles and reactant solutions were pushed through the fiber lumen. Con A was purified by Sephadex G-75 column affinity chromatography, and a slight back pressure was used during Con A infusion to cause ultrafiltration of protein solution through the fiber membrane. This combined with glutaraldehyde in the external solution to give a cross-linked layer of Con A on the inside wall of the fiber. The Con A bound hollow fiber glucose affinity sensors give satisfactory results in in vitro and in vivo glucose concentration estimation in plasma and blood. (23 ref)

Descriptors: concanavalin-A immobilization, cellulose hollow fiber support, appl. in glucose analysis affinity biosensor construction protein

Section: Pharmaceuticals-Other; Biocatalysis-Applications; Chemistry-Analysis and Structure ( D5,K2,C1 )

5/9/14 (Item 1 from file: 159)

Cancerlit

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01301075 PMID: 81618791

ISOLATION OF GAMMA-GLUTAMYL TRANSPEPTIDASE FROM HUMAN PRIMARY HEPATOMA AND COMPARISON OF ITS KINETIC AND CATALYTIC PROPERTIES WITH THE ENZYME FROM NORMAL ADULT AND FETAL LIVER.

Selvaraj; Balasubramanian; Hill  
Wellcome Res. Unit, Christian Medical Coll. Hosp., Vellore, India  
Enzyme

1981 ,

26 (2) p57-63 , ISSN 0013-9432

Document Type: JOURNAL ARTICLE

Languages: ENGLISH

Main Citation Owner: NOTNLM

Record type: Completed

Gamma-glutamyl transpeptidase (gamma-GT) from human primary hepatoma was solubilized and purified 290-fold with 25% recovery. The kinetic and catalytic properties were compared with those purified from human fetal and normal adult liver. Hepatoma gamma-GT did not differ from the fetal and adult liver gamma-GT and its pH optima for transpeptidation and autotransfer reaction, heat stability, Km for the two substrates and inhibition by L-serine + borate. Enzyme from the three sources behaved in a similar manner towards various cations, sulfhydryl reagents, amino acids and dipeptides. Adult liver enzyme showed a 4x higher Ki value for anthglutin than hepatoma and fetal liver. The hepatoma gamma-GT could not be differentiated from that of adult and fetal liver by concanavalin-A Sepharose 4B column chromatography. The tissue concentration of gamma-GT was 3 to 13x higher in hepatoma and fetal liver than in adult liver. (Author abstract) (25 Refs)

Record Date Created: 19810701

? d s

Set	Items	Description
S1	71	S AU=((JONES, D?) OR (JONES, D.H.) OR (JONES D.?) OR (JONES D?)) AND CONCANAVALIN
S2	23	RD (unique items)
S3	22	S S2 AND PY<=2003
S4	32	S (CONCANAVALIN) (N50) (PURIF?) (N50) (BORATE OR BORAX OR CHES)
S5	14	RD (unique items)
S6	0	S S5 AND RECOMBINANT

? S (CONCANAVALIN) (N50) (PURIF?) (N50) (recombinant or (E. coli))

145438 CONCANAVALIN

3090224 PURIF?

1685209 RECOMBINANT

3501 E. COLI

S7 718 S (CONCANAVALIN) (N50) (PURIF?) (N50) (RECOMBINANT OR (E. COLI))

? s s7 and (glucose or glycogen)

718 S7

2051611 GLUCOSE

248558 GLYCOGEN

S8 27 S S7 AND (GLUCOSE OR GLYCOGEN)

? rd

>>>W: Duplicate detection is not supported for File 391.

Records from unsupported files will be retained in the RD set.

S9 16 RD (UNIQUE ITEMS)

? t s9/medium/all

9/3/1 (Item 1 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)

MEDLINE(R)

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12411290 PMID: 9352080

Purification of recombinant human precursor acid alpha-glucosidase.

Van Hove J L; Yang H W; Oliver L M; Pennybacker M F; Chen Y T

Department of Pediatrics, Duke University Medical Center, Durham, NC, USA.

Biochemistry and molecular biology international ( AUSTRALIA ) Oct 1997 , 43 (3) p613-23 , ISSN: 1039-9712--Print Journal Code: 9306673

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

9/3/2 (Item 2 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)

MEDLINE(R)

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11902264 PMID: 8825618

Inhibition of human immunodeficiency virus infection of CD4+ cells by CD4-free glycopeptides from monocytic U937 cells.

Mbemba E; Carre V; Atemezem A; Saffar L; Gluckman J C; Gattegno L

Faculte de Medecine Leonard de Vinci, Universite Paris-Nord, Bobigny, France.

AIDS research and human retroviruses ( UNITED STATES ) Jan 1 1996 , 12 (1) p47-53 , ISSN: 0889-2229--

Print Journal Code: 8709376  
Publishing Model Print  
Document type: Journal Article; Research Support, Non-U.S. Gov't  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: MEDLINE; Completed

9/3/3 (Item 3 from file: 155)

Fulltext available through: [STIC Full Text Retrieval Options](#)  
MEDLINE(R)

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11488622 PMID: 7558310

Molecular and biochemical characterization of a *Coccidioides immitis*-specific antigen.

Pan S; Cole G T

Department of Microbiology, Medical College of Ohio, Toledo 43699-0008, USA.

Infection and immunity ( UNITED STATES ) Oct 1995 , 63 (10) p3994-4002 , ISSN: 0019-9567--Print  
Journal Code: 0246127

Contract/Grant No.: AI19149; AI; United States NIAID

Publishing Model Print

Document type: Journal Article; Research Support, U.S. Gov't, P.H.S.

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

9/3/4 (Item 1 from file: 5)

Fulltext available through: [STIC Full Text Retrieval Options](#)

Biosis Previews(R)

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16941884 Biosis No.: 200200535395

Hemoglobin binds melanoma cell tissue factor and enhances its procoagulant activity

Author: Siddiqui F A (Reprint); Francis J L

Author Address: Hemostasis and Thrombosis Center, Florida Hospital Cancer Institute, 2501 North Orange Avenue, Suite 786, Orlando, FL, 32804, USA\*\*USA

Journal: Blood Coagulation and Fibrinolysis 13 ( 3 ): p 173-180 April, 2002 2002

Medium: print

ISSN: 0957-5235

Document Type: Article

Record Type: Abstract

Language: English

9/3/5 (Item 1 from file: 24)

Fulltext available through: [STIC Full Text Retrieval Options](#)

CSA Life Sciences Abstracts

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0001567725 IP Accession No: 3845169

Inhibition of human immunodeficiency virus infection of CD4 super(+) cells by CD4-free glycopeptides from monocytic U937 cells

Mbemba, E; Carre, V; Atemezem, A; Saffar, L; Gluckman, JC; Gattegno, L Lab. Biol. Cellulaire, Fac. Med. Leonard de Vinci, Univ. Paris-Nord, 93017 Bobigny Cedex, France

AIDS Research and Human Retroviruses , v 12 , n 1 , p 47-53 , 1996

Addl. Source Info: AIDS Research and Human Retroviruses [AIDS RES. HUM. RETROVIRUSES], vol. 12, no. 1, pp. 47-53, 1996

Publication Date: 1996

Document Type: Journal Article

Record Type: Abstract

Language: English

Summary Language: English

ISSN: 0889-2229

File Segment: Virology & AIDS Abstracts; Immunology Abstracts

9/3/6 (Item 1 from file: 34)

Fulltext available through: [STIC Full Text Retrieval Options](#)

SciSearch(R) Cited Ref Sci

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04996424 Genuine Article#: UY114 No. References: 63

RECOMBINANT SOLUBLE BETA-1,4-GALACTOSYLTRANSFERASES EXPRESSED IN SACCHAROMYCES-CEREVISIAE - PURIFICATION, CHARACTERIZATION AND COMPARISON WITH HUMAN ENZYME

Author: MALISSARD M; BORSIG L; DIMARCO S; GRUTTER MG; KRAGL U; WANDREY C; BERGER EG

Corporate Source: UNIV ZURICH,INST PHYSIOL,WINTERTHURERSTR 190/CH-8057

ZURICH//SWITZERLAND/; UNIV ZURICH,INST PHYSIOL/CH-8057 ZURICH//SWITZERLAND/; CIBA GEIGY LTD,PHARMA DIV BIOTECHNOL/BASEL//SWITZERLAND/

Journal: EUROPEAN JOURNAL OF BIOCHEMISTRY , 1996 , V 239 , N2 ( JUL 15 ) , P 340-348

ISSN: 0014-2956

Language: ENGLISH Document Type: ARTICLE ( Abstract Available )

9/3/7 (Item 2 from file: 34)

Fulltext available through: [STIC Full Text Retrieval Options](#)

SciSearch(R) Cited Ref Sci

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03939217 Genuine Article#: QT686 No. References: 25

PROTEINS IN TISSUE-EXTRACTS WHICH BIND INSULIN-LIKE GROWTH-FACTOR BINDING PROTEIN-3 (IGFBP-3)

Author: HODGKINSON S; FOWKE P; ALSOMAI N; MCQUOID M  
Corporate Source: RUAKURA AGR RES CTR, AGRES, PRIVATE BAG 3123/HAMILTON//NEW ZEALAND/  
Journal: JOURNAL OF ENDOCRINOLOGY , 1995 , V 145 , N1 ( APR ) , P R1-R6  
ISSN: 0022-0795  
Language: ENGLISH Document Type: ARTICLE ( Abstract Available )

9/3/8 (Item 3 from file: 34)

Fulltext available through: [STIC Full Text Retrieval Options](#)

SciSearch(R) Cited Ref Sci

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03916104 Genuine Article#: QR243 No. References: 37

EFFECT OF THE ACID-LABILE SUBUNIT ON THE BINDING OF INSULIN-LIKE GROWTH-FACTOR  
(IGF)-BINDING PROTEIN-3 TO [I-125] IGF-I

Author: BARRECA A; PONZANI P; ARVIGO M; GIORDANO G; MINUTO F  
Corporate Source: UNIV GENOA, DEPT ENDOCRINOL & METAB, DISEM, VIALE BENEDETTO 15, 6/I-16132  
GENOA//ITALY/  
Journal: JOURNAL OF CLINICAL ENDOCRINOLOGY AND METABOLISM , 1995 , V 80 , N4 ( APR ) , P  
1318-1324  
ISSN: 0021-972X  
Language: ENGLISH Document Type: ARTICLE ( Abstract Available )

9/3/9 (Item 1 from file: 144)

Pascal

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12298652 PASCAL No.: 95-0531944

Molecular and biochemical characterization of a *Coccidioides*  
*immitis*-specific antigen

SHUCHONG PAN; COLE G T  
Medical coll. Ohio, dep. microbiology, Toledo OH 43699-0008, USA  
Journal: Infection and immunity, 1995  
, 63 (10) 3994-4002

Language: English

9/3/10 (Item 1 from file: 357)

Fulltext available through: [STIC Full Text Retrieval Options](#)

Derwent Biotech Res.

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0435430 DBA Accession No.: 2007-21737

Purification and biochemical characterization of a mycelial alkaline phosphatase without DNAase activity produced by *Aspergillus caespitosus* purification of alkaline phosphatase from *Aspergillus caespitosus* mycelium extract using DEAE-cellulose and concanavalin-A-sepharose chromatography for potential application in recombinant DNA technology

Author: GUIMARAES LHS; JUNIOR AB; JORGE JA; TERENCE HF; POLIZELI MLTM

Corporate Affiliate: Univ Sao Paulo Univ Sao Paulo

Corporate Source: Polizeli MLTM, Univ Sao Paulo, Fac Filosofia Ciencias and Letras Ribeirao Pret, Dept Biol, BR-14040901 Ribeirao Preto, SP, Brazil

Journal: FOLIA MICROBIOLOGICA ( 52, 3, 231-236 ) 2007

ISSN: 0015-5632

Language: English

9/3/11 (Item 2 from file: 357)

Derwent Biotech Res.

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0408298 DBA Accession No.: 2006-21794 PATENT

New composition comprises a substantially purified lectin polypeptide, useful in sensors for detecting a wide range of physiological analyte concentrations, e.g. glucose concentration vector-mediated gene transfer and expression in bacterium for recombinant concanavalin-A production for use in biosensor for mannose analysis

Author: PALMIERI S J; BULSECO D

Patent Assignee: LIFESCAN INC 2006

Patent Number: WO 200691942 Patent Date: 20060831 WPI Accession No.: 2006-595227 ( 200661 )

Priority Application Number: US 655756

Application Date: 20050224

National Application Number: WO 2006US6873 Application Date: 20060224

Language: English

9/3/12 (Item 3 from file: 357)

Derwent Biotech Res.

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0372632 DBA Accession No.: 2005-18338 PATENT

Obtaining recombinant glucose binding protein expressed in non-plant host cells, useful in system for measuring glucose concentration, involves reducing glycogen content of lysate of cells recombinant glucose binding protein preparation for glucose biosensor construction

Author: JONES H

Patent Assignee: UWS VENTURES LTD 2005

Patent Number: WO 200551987 Patent Date: 20050609 WPI Accession No.: 2005-417957 ( 200542 )

Priority Application Number: GB 200327179 Application Date: 20031121  
National Application Number: WO 2004GB4907 Application Date: 20041119  
Language: English

9/3/13 (Item 4 from file: 357)

Derwent Biotech Res.

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0221935 DBA Accession No.: 98-03532 PATENT

New acyltransferase from *Lycopersicon penelli* and related nucleic acid  
- recombinant enzyme for use in glucose palmitoyl ester production

Author: Steffens J C; Ghangas G S

Corporate Source: Ithaca, NY, USA.

Patent Assignee: Cornell-Res.Found. 1997

Patent Number: WO 9748811 Patent Date: 971224 WPI Accession No.: 98-063149 ( 9806 )

Priority Application Number: US 665966 Application Date: 960621

National Application Number: WO 97US11005 Application Date: 970618

Language: English

9/3/14 (Item 5 from file: 357)

Derwent Biotech Res.

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0056397 DBA Accession No.: 87-00745

Purification and characterization of recombinant murine immune interferon  
- produced in *Escherichia coli*

Author: Nagata K; Kikuchi N; Ohara O; Teraoka H; Yoshida N; Kawade Y

Corporate Affiliate: Shionogi

Corporate Source: Shionogi Research Laboratories, Shionogi and Co., Ltd, 5-12-4 Sagisu, Fukushima-ku, Osaka 553, Japan.

Journal: FEBS Lett. ( 205, 2, 200-04 ) 1986

CODEN: FEBLAL

Language: English

9/3/15 (Item 1 from file: 149)

TGG Health&Wellness DB(SM)

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01525434 Supplier Number: 17029936 (USE FORMAT 7 OR 9 FOR FULL TEXT )

T helper cell subsets in insulin-dependent diabetes.

Katz, Jonathan D.; Benoist, Christophe; Mathis, Diane

Science , v268 , n5214 , p1185(4)

May 26 ,

1995



Publication Format: Magazine/Journal  
ISSN: 0036-8075  
Language: English  
Record Type: Fulltext; Abstract Target Audience: Academic  
Word Count: 3397 Line Count: 00272

Special Features: illustration; photograph; graph  
Descriptors: T cells--Physiological aspects; Diabetes, Insulin-dependent--Research  
File Segment: MI File 47

9/3/16 (Item 1 from file: 399)

CA SEARCH(R)

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143022650 CA: 143(2)22650k PATENT  
Purification method for a recombinant glucose binding protein  
Inventor (Author): Jones, Hugh  
Location: UK,  
Assignee: UWS Ventures Limited  
Patent: PCT International ; WO 200551987 A1 Date: 20050609  
Application: WO 2004GB4907 (20041119) \*GB 200327179 (20031121)  
Pages: 61 pp.  
CODEN: PIXXD2  
Language: English  
Patent Classifications:

Class: C07K-014/415A

Designated Countries: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW

Designated Regional: BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

? TYPE 408298/full from 357

408298/9 (Direct type from file: 357)

Derwent Biotech Res.

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0408298 DBA Accession No.: 2006-21794 PATENT

New composition comprises a substantially purified lectin polypeptide, useful in sensors for detecting a wide range of physiological analyte concentrations, e.g. glucose concentration vector-mediated gene transfer and expression in bacterium for recombinant concanavalin-A production for use in biosensor for mannose

analysis

Author: PALMIERI S J; BULSECO D

Patent Assignee: LIFESCAN INC 2006

Patent Number: WO 200691942 Patent Date: 20060831 WPI Accession No.: 2006-595227 ( 200661 )

Priority Application Number: US 655756 Application Date: 20050224

National Application Number: WO 2006US6873 Application Date: 20060224

Language: English

Abstract: DERWENT ABSTRACT: NOVELTY - A composition comprising a substantially purified lectin polypeptide, where the composition is at least 95% pure or has a purity of greater than 95% as determined by relative peak area integration, and where the lectin comprises greater than 95% by weight of the total protein of the composition, is new. DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for: (1) a method of producing a recombinant lectin of interest; (2) a method of purifying a lectin; (3) an isolated nucleic acid sequence encoding a mutant form of a natural Concanavalin A; (4) a host cell that contains the nucleic acid and expresses the encoded protein; (5) a polypeptide coded for by the nucleic acid sequence; (6) a method of producing a Concanavalin A exhibiting reduced precipitation during purification; (7) a vector comprising an inducible promoter, a kanamycin resistance gene and a nucleic acid sequence encoding for a form of Concanavalin A; and (8) a sensor comprising a mutant form of Concanavalin A. BIOTECHNOLOGY - Preferred Composition: The composition has a purity of greater than 97% by relative peak integration. The lectin polypeptide comprises recombinant Concanavalin A. Preferably, the lectin is a tetramer, a dimer, or a monomer. The lectin polypeptide also comprises a mutant recombinant Concanavalin A. It also comprises a tetramer of a polypeptide comprising 237 amino acids (SEQ ID NO: 15), given in the specification. Preferably, the composition comprises a substantially purified lectin having less than 150 ng of Host Cell Protein (HCP) per mg of purified lectin. The lectin comprises a Concanavalin A or a mutant Concanavalin A. Preferred Nucleic Acid: The nucleic acid comprises 714 base pairs (bp; SEQ ID NO: 16), given in the specification. It is operatively linked to a promoter. Preferred Method: Producing a recombinant lectin of interest comprises inducing expression of the lectin in a bacterial cell culture. It further comprises: (a) lysing the cells of the bacterial culture to produce an inclusion body fraction; (b) purifying the inclusion body fraction; (c) solubilizing the inclusion bodies in the inclusion body fraction so that the lectin of interest is present in solution; (d) denaturing the lectin of interest; (e) allowing the lectin of interest to refold in solution; and (f) purifying the solution. The cells of the bacterial culture have been transformed by a vector comprising a kanamycin resistance gene, where the transformed bacterial cell culture is induced with IPTG in the absence of kanamycin. Denaturing the lectin of interest occurs at a pH of less than 5. The solution is purified by affinity chromatography or by size-exclusion chromatography. Preferably, the lectin is a member of a family of proteins that specifically bind at least one of glucose and mannose. Purifying a lectin comprises adding a denaturing, chaotropic agent to a solution of lectin having a pH less than 5, and subjecting the solution to size exclusion chromatography. Producing a Concanavalin A exhibiting reduced precipitation during purification comprises performing a mutation to the nucleic acid sequence of a Concanavalin A, where the mutation encodes for an amino acid change, the amino acid change converting an acidic amino acid site to a neutral amino acid. Preferred Sensor: In the sensor, the mutant form of Concanavalin A has at least one mutation encoding for an amino acid change, the amino acid change converting an acidic amino acid site to a neutral amino acid. The mutant Concanavalin A comprises the polypeptide of SEQ ID NO: 15. The sensor further comprises a donor, and an acceptor, where the mutant Concanavalin A is labeled with at least one of the donor and the acceptor. It further comprises a fluorescence acceptor conjugated to a glycosylated substrate. The sensor further comprises a fluorescent donor conjugated to a glycosylated substrate. USE - The composition comprising lectin is useful in sensors to detect a wide range of physiological analyte concentrations (e.g. concentrations ranging from 0.5-18 mg/ml in the case of glucose).(89 pages)

Descriptors: recombinant lectin, concanavalin-A prep., purification, vector-mediated kanamycin-resistance gene transfer, expression in bacterium host cell, inclusion body, solubilization, protein denaturation, protein refolding, affinity chromatography, size-exclusion chromatography, glycosylated substrate, fluorescent donor conjugate, appl. glucose, mannose analysis protein glycoside antibiotic-resistance chromatography DNA sequence protein sequence

(25, 41)

Section: BIOINFORMATICS and ANALYSIS-Biosensors-GENETIC TECHNIQUES and APPLICATIONS-Gene Expression Techniques and Analysis

? Please enter a command or be logged off in 5 minutes

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Estimated Cost Summary

Project		Client		Charge Code		Searcher		Job		Service Code	User Number
						Suzanne Noakes				51	276629
Date		Time		SessionID		Subsession		Subaccount			
06/05/2008		14:21:19		83		3					
Data Base	Dial Units	Access Charge	Print Credit	Types	Prints	Report	Rank	Links	CSS	Total	
155	1.6980	5.98	0.00	6.72	0.00	0.00	0.00	0.00	0.00	12.70	
5	2.1100	13.06	0.00	36.60	0.00	0.00	0.00	0.00	0.00	49.66	
24	0.2450	1.58	0.00	2.70	0.00	0.00	0.00	0.00	0.00	4.28	
28	0.0690	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	
34	0.8430	22.44	0.00	30.96	0.00	0.00	0.00	0.00	0.00	53.40	
35	0.1570	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	
40	0.0670	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	
41	0.0620	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	
45	0.1740	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	
50	0.3450	1.64	0.00	4.28	0.00	0.00	0.00	0.00	0.00	5.92	
65	0.6910	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.95	
71	0.2380	2.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.39	
73	0.9120	11.72	0.00	3.55	0.00	0.00	0.00	0.00	0.00	15.27	
91	0.0760	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	
98	0.0910	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	
110	0.0450	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	
135	0.0640	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	
136	0.0600	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	
143	0.1310	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	
144	0.9960	5.09	0.00	3.84	0.00	0.00	0.00	0.00	0.00	8.93	
164	0.0600	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	
172	0.0360	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	
185	0.2310	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.48	
357	0.1810	4.58	0.00	25.66	0.00	0.00	0.00	0.00	0.00	30.24	
369	0.0450	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	
370	0.0380	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	
391	0.0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

434	0.5640	15.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.03
467	0.0360	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24
149	0.1480	0.67	0.00	2.46	0.00	0.00	0.00	0.00	0.00	3.13
156	0.3290	2.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.02
159	0.2860	0.93	0.00	0.56	0.00	0.00	0.00	0.00	0.00	1.49

162	0.1430	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67
266	0.0380	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
399	2.1860	28.58	0.00	8.94	0.00	0.00	0.00	0.00	0.00	37.52
444	0.0520	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26
Sub Totals	13.4970	\$127.50	\$0.00	\$126.27	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$253.77
Session Totals	13.8770	\$127.80		Telecom	\$8.27					\$262.34

Ended session: 6/5/08 3:21:23 PM

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